

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10512, 109

Source: PT

Date Processed by STIC: 10/29/04

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PCT

RAW SEQUENCE LISTING

DATE: 10/29/2004

PATENT APPLICATION: US/10/512,109

TIME: 12:05:29

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Output Set: N:\CRF4\10292004\J512109.raw

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3 <110> APPLICANT: KIRIN BEER KABUSHIKI KAISHA
5 <120> TITLE OF INVENTION: POLYPEPTIDE HAVING AN ACTIVITY TO SUPPORT PROLIFERATION OR
SURVIVAL
6     OF HEMATOPOIETIC STEM CELL OR HEMATOPOIETIC PROGENITOR CELL, AND DNA CODING
7     FOR THE SAME
9 <130> FILE REFERENCE: 905WO1OP1572
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/512,109
C--> 11 <141> CURRENT FILING DATE: 2004-10-21
11 <150> PRIOR APPLICATION NUMBER: US 60/376,001
12 <151> PRIOR FILING DATE: 2002-04-26
14 <160> NUMBER OF SEQ ID NOS: 49
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19 <211> LENGTH: 343
20 <212> TYPE: DNA
21 <213> ORGANISM: Mus musculus
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28 cccggacccc cttgacccat gccctccccg gctgtgcaga acaggaggga cagaagacct      180
30 cagctgccac ctgcccagag cccacacgct tcttctgct cttcctcgtc accttggtcc      240
32 ttgcggcagc caggcccagg tggcggtaac tgccccctat cccagacagt aactctgagt      300
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37 <211> LENGTH: 546
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39 <213> ORGANISM: Mus musculus
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46 gccctctcct tctcattct tacaactgct ctgtgaatct gggcccagat cacacatgca      180
48 acagagacaa aagaagtcca gagcagtctg aaggcacagc aagggttga aattgaaatg      240
50 tttcacatgg gctttcaaga ctcttcagat tgctgcctgt cctataactc acggattcag      300
52 tgttcaagat ttataggtta ttttcccacc agtggtgggt gtaccaggcc gggcatcatc      360
54 tttatcagca agaggggggt ccagggtctgt gccaacccca gtgatcggag agttcagaga      420
56 tgcattgaaa gattggagca aaactcaca ccacggacct acaacaata acatttgctt      480
58 gaagagaagg gtgtgaactg ccagctactt tctttgggtt tccccagtga ccacctaagt      540
60 ggctct
62 <210> SEQ ID NO: 3
63 <211> LENGTH: 1223
64 <212> TYPE: DNA
65 <213> ORGANISM: Mus musculus
67 <400> SEQUENCE: 3
68 gtgacccgga agggagcccc gtggttagagg tgaccggagc tgagcatttc agatctgctt      60

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70 agtaaaccgg tgtatcgccc accatgttgg ctgcaaggct tgtgtgtctc cggacactac 120
72 cttccaggggt tttccagccc actttcatca ccaaggcctc tccacttgtg aagaattcca 180
74 tcacaaagaa ccaatggctc gtaacaccca gcagggaata tgctaccaag acaagaatta 240
76 ggactcaccg tgggaaaact ggacaagaac tgaaagaggc agccttggaa ccatcaatgg 300
78 aaaaaatctt taaaatcgat caaatgggaa ggtggtttgt tgctggagga gcagctgttg 360
80 gtcttggagc gctctgctac tatggcttgg gaatgtctaa tgagattgga gctatcgaaa 420
82 aggctgtaat ttggcctcag tatgtaaagg atagaattca ttctacttac atgtacttag 480
84 caggaaggta ttgtttaaca gctttgtctg ccttggcagt agccagaaca cctgctctca 540
86 tgaacttcat gatgacaggc tcttgggtga caattgggtg gacctttgca gccatgattg 600
88 gagctggaat gcttgtacac tcaatatcat atgagcagag cccaggccca aagcatctgg 660
90 cttggatgct gcattctggg gtgatgggtg cagttgtggc tectctgacg atcttagggg 720
92 ggccctcttct cctgagagcc gcatggtaca ccgctgggat tgtgggaggc ctctctactg 780
94 tggccatgtg tgcgcctagt gagaagtttc tgaacatggg agcaccctg ggagtgggccc 840
96 tgggtcttgt ctttgcgtct tctctggggt ctatgtttct tccccctacc tctgtggctg 900
98 gtgccactct gtactcagtg gcaatgtatg gtggattagt tcttttcagc atgttctctc 960
100 tgtatgatac tcagaaagta atcaaactg cagaaataac acccatgtat ggagctcaaa 1020
102 agtatgatcc catcaattcg atgttgacaa tctacatgga tacattaaat atatttatgc 1080
104 gagttgcaac tatgctagca actggaagca acagaaagaa atgaagtaac cgcttgtgat 1140
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108 cagcagaatt cccgcgcggc cgc 1223

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112 <212> TYPE: DNA

113 <213> ORGANISM: Mus musculus

115 <400> SEQUENCE: 4

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120 ctggcctgct ggctagttgc ccacctgtg ggtcccgccc agagcaagga tactggagct 180
122 ttgcctgcc tcaactgagc tgggtctcca ctccagtcac cctccagct actttgcagc 240
124 actctgtgct catgagcacc tgcctctgct ggccctgcagt cctggccctt gccgggctgg 300
126 ctctgctcct tctgctgtgc ctgggtccag atggcataag tggaaacaaa ctcaagaaga 360
128 tgctccagaa acgagaagga cctgtcccgt caaagactaa tgtagctgta gccgagaaca 420
130 cagcaaagga attcctaggt ggccctgaagc gtgcccacac acagctgttg gaccgtacgc 480
132 ggccctgaggt acagcagtggt taccagcagt tccctacat gggctttgat gaggctaaat 540
134 ttgaagatga tgtcaactat tggctaaaca gaaatcgaaa cggccatgac tactatggtg 600
136 actactacca gcgtcattat gatgaagatg cggccatttg tccccacagc cgggaaagct 660
138 tcaggcatgg agccagtggt aactatgatg actattaagc ttccctgaggt gccacagag 720
140 cttgtgcttg cttcagtagg ccttctctac ctataccacg tgaccatcag gctaaaggaa 780
142 agaataataag tgctttttgc atttcatgca tgtgcttaac gatatgtctc acttaaaaa 839

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146 <211> LENGTH: 1420

147 <212> TYPE: DNA

148 <213> ORGANISM: Mus musculus

150 <400> SEQUENCE: 5

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153 tcattttctca cactgtgcac tgtcaaagac aaatgtgcat ggaaaaatgt ttagtgtcac 120
155 ctcatggcgt tctcagcatc agtgaccttc aaacggctct acaatgagac tgtgttctag 180
157 ctaggggtat gctgtggaaa ttccctgtac atttcatctt agtgctaaca tgtacagatt 240
159 ctgctgcgct acattcaaag ctccattact tatatttatg ctttctctgt gtaacaagtt 300

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161 atacctgata agatgtcact ttgtttctag tgattcttaa ccatggctctg gtacatggct 360
163 attctagttt tggaaattaa caagtgtttt gttgcctctt gttttctttt gttcctatca 420
165 tttttggcgg gggttgggtg ggcttgattc taaccgtaag tataggataa gctagttttg 480
167 tatatagagt caaatgactg atgtcagagg atcagtgtctg atagaacttc cccagttcat 540
169 gtcacgatac acacagagag aaagcagcat gaggcactctt gccatcagaa gccaaatttc 600
171 ttttgagttc caaaattgat gacttatgaa atatagctga aaacaagatt tgggtgtagt 660
173 tacttgattt tattatacaa ttccaatta catttttttt caaactcaaa ataaccatg 720
175 actttgagtg ataggtcact tggcaatgtt cttgaattac tggggaagct gttgtcacta 780
177 agataatgag agagaaaaata gaatggcttc gcccaagtga gagccacatc ttacatttct 840
179 ctgttgaatc ggaatcaact atattagaac agaagcctga tagaagcttt ctagttaaca 900
181 cacacaaggc catggtttca aaaacatctt tgtcccttta ggtcagtttg tccttagatt 960
183 atgaattggc aggttctaata tgcattatct ccttggctga tccaggaaaa agttagaaca 1020
185 aaataagttg catagttttg aggaacatc caaagcaagg cgaagccttt ccttgccttg 1080
187 cattggcaaa actacctctt tagcatttat gttgattcag aaacatcttg ctgatatgtg 1140
189 tagatgtttt aagcttcatt gtgaaaatat tgatgcaaga taagccatat atgaatgttg 1200
191 tattcaactt tagggccttg aattaatcct aaagtgttca cctctctcca tgtctattta 1260
193 cactctgttc ctatttacta agagggtagg ggtctcctta atatcatact tcattgttaa 1320
195 taagtcaatg cttgttatgt ttcttggctg ttgtttttgt gcattaaaaa ctcaaaattg 1380
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199 <210> SEQ ID NO: 6

200 <211> LENGTH: 763

201 <212> TYPE: DNA

202 <213> ORGANISM: Mus musculus

204 <400> SEQUENCE: 6

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209 cgtacaatag aatccctgat ggaccgagga gccatagtga ggaacttga aagcctgggt 180
211 gagcgtgcgc tcccctacag gatctcgagt cacagccagc agcacagccg aggagggtat 240
213 ttcttggtgg atttttatgc tccgacaagt gctgtggaga acatactgga acacttggcg 300
215 cgagacattg acgtgggttag accaaatatt gtgaaacacc ctctgaccca ggaagtaaaa 360
217 gagtgtgacg gcatagtccc agtcccactt gaagaaaaac tgtattcaac aaagaggagg 420
219 aagaagtgag aagattcacc agattctggc cttatattta atcctaaggg cactatgggt 480
221 gctgctaggt tgttgtctag gatactttag cccatgacca ttttgctgca ggaggtagaa 540
223 actgctggcc gagacctgcc ctgatgtctc tgctgagatt tcatccact tgtggggttt 600
225 gtcgggagtg ggggtgttca cagtaccact gtagcgtttc caagagcaaa atgtttgtca 660
227 ttcacacttg gttgtcttgc aagcctatat ggaacactgg gagcagagta ataaacatga 720
229 ctttatcaac actggaaaaa aaaaaaaaaa aaaaaaaaaa aaa 763

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232 <211> LENGTH: 1300

233 <212> TYPE: DNA

234 <213> ORGANISM: Mus musculus

236 <400> SEQUENCE: 7

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241 ggcattgggt cagcttggag gaaagtcaga ggaaattcag ataacttgg atctcttctt 180
243 gtcgttgcaa tgtttcgggg tccacttcac tatgagatac caagcagctg ccaacctcac 240
245 catactcatt tcgttacaat ttctgaggca ccgtgggtgac ttgatccgac atacgaccac 300
247 gtcagttaca aaccagatct ttatgggttaa cttttgaaca tttcacaac aacattgtaa 360
249 atgtgcgatg ttatgtttta aatcagacca cagtgggtccc caaatattat gtacatatga 420

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251 caaatgtcag tgtaactttt tgttacactg acagtttcat aggtaaacaac acctacgctc 480
253 caatgttaaa ttatgcttgt gtatgtaaaa tacacaagca ttgggctatg tgtgtacgga 540
255 catgagggtg gtgcaatcgt actgtacgaa atgggtcaga atcattttca gtggtgtag 600
257 gttatgtagt ttcagactcc atgctgcatt ttctcttgca catgccatcc atttgcttat 660
259 tttggagtgt gagtattcct tcttattaat ttgaattcaa agcacaagcc tccattggt 720
261 caacattacc caacaagagt gtccagtgat gaccgagtta tctcacctgc tatactttta 780
263 ctgcaataat taatgacacc tggatgagga ggcgtgcgct gacttcattg ttcacccggg 840
265 atagtgcatt agcccactga attagagctg cttctaccag caaaagtgag cagtacacat 900
267 aggtgcatgt ttgaaacatg aatcacatag agctatggag ttttgccaag tgatgtgttt 960
269 tctttttctt ttttcttttt ttttcttttt cttctttttt ttcctttttt tcttcttctt 1020
271 cttttttttt ttttttacta tgcaaagatg ggaaatgcac aaacttccaa gacatgtctg 1080
273 aagaacttta caatacttga attttttctt taatcatccc atcacattta tggcattgat 1140
275 gcttccattg tatttttctt ttgtcccttc aacttcaatg gtttgaatt tcaatgcaca 1200
277 acctaacttt tgtttgcagt aacttccaat cctattggct gcctggaacg gagattctgt 1260
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283 <211> LENGTH: 1674
284 <212> TYPE: DNA
285 <213> ORGANISM: Mus musculus
287 <220> FEATURE:
288 <221> NAME/KEY: CDS
289 <222> LOCATION: (1)..(1671)
291 <400> SEQUENCE: 8
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293 Met Glu Leu Arg Thr Arg Gly Trp Trp Leu Leu Cys Ala Ala Ala Ala
294 1 5 10 15
296 ctg gtc gtc tgc gcc cgc ggg gac ccc gcc agc aag agc cgg agc tgc 96
297 Leu Val Val Cys Ala Arg Gly Asp Pro Ala Ser Lys Ser Arg Ser Cys
298 20 25 30
300 agc gaa gtc cgc cag atc tac ggg gct aag ggc ttt agc ctg agc gat 144
301 Ser Glu Val Arg Gln Ile Tyr Gly Ala Lys Gly Phe Ser Leu Ser Asp
302 35 40 45
304 gtg ccc cag gca gag atc tgc ggt gag cac ctg cgg atc tgc ccc cag 192
305 Val Pro Gln Ala Glu Ile Ser Gly Glu His Leu Arg Ile Cys Pro Gln
306 50 55 60
308 ggc tac act tgc tgt acc agt gag atg gag gag aat ttg gcc aac cac 240
309 Gly Tyr Thr Cys Cys Thr Ser Glu Met Glu Glu Asn Leu Ala Asn His
310 65 70 75 80
312 agc cga atg gag ctg gag agc gca ctc cat gac agc agc cgc gcc ctg 288
313 Ser Arg Met Glu Leu Glu Ser Ala Leu His Asp Ser Ser Arg Ala Leu
314 85 90 95
318 cag gcc aca ctg gcc acc cag ctg cat ggc atc gat gac cac ttc cag 336
319 Gln Ala Thr Leu Ala Thr Gln Leu His Gly Ile Asp Asp His Phe Gln
320 100 105 110
322 cgc ctg ctg aat gac tgc gag cgc aca ctg cag gag gct ttc cct ggg 384
323 Arg Leu Leu Asn Asp Ser Glu Arg Thr Leu Gln Glu Ala Phe Pro Gly
324 115 120 125
326 gcc ttt ggg gac ctg tat acg cag aac act cgt gcc ttc cgg gac cta 432
327 Ala Phe Gly Asp Leu Tyr Thr Gln Asn Thr Arg Ala Phe Arg Asp Leu

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| 331 | Tyr Val Glu Leu Arg Leu | Tyr Tyr Arg Gly Ala Asn | Leu His Leu Glu | |
| 332 | 145 | 150 | 155 | 160 |
| 334 | gag acg ctg gcc gag ttc | tgg gca cgg ctg gag cgc | ctc ttc aag | 528 |
| 335 | Glu Thr Leu Ala Glu Phe | Trp Ala Arg Leu Leu Glu | Arg Leu Phe Lys | |
| 336 | 165 | 170 | 175 | |
| 338 | cag ctg cac ccc cag ctg | ctg cct gat gac tac ctg | gac tgc ctg ggc | 576 |
| 339 | Gln Leu His Pro Gln Leu | Leu Pro Asp Asp Tyr Leu | Asp Cys Leu Gly | |
| 340 | 180 | 185 | 190 | |
| 342 | aag cag gcg gag gca ctg | cgg ccg ttt gga gat gcc | cct cga gaa ctg | 624 |
| 343 | Lys Gln Ala Glu Ala Leu | Arg Pro Phe Gly Asp Ala | Pro Arg Glu Leu | |
| 344 | 195 | 200 | 205 | |
| 346 | cgc ctg cgg gcc acc cgt | gcc ttt gtg gct gca cgt | tcc ttt gtg cag | 672 |
| 347 | Arg Leu Arg Ala Thr Arg | Ala Phe Val Ala Ala Arg | Ser Phe Val Gln | |
| 348 | 210 | 215 | 220 | |
| 350 | ggc ctg ggt gtg gcc agt | gat gta gtc cgg aag gtg | gcc cag gta cct | 720 |
| 351 | Gly Leu Gly Val Ala Ser | Asp Val Val Arg Lys Val | Ala Gln Val Pro | |
| 352 | 225 | 230 | 235 | 240 |
| 354 | ctg gcc cca gaa tgt tct | cgg gcc atc atg aag ttg | gtc tac tgt gct | 768 |
| 355 | Leu Ala Pro Glu Cys Ser | Arg Ala Ile Met Lys Leu | Val Tyr Cys Ala | |
| 356 | 245 | 250 | 255 | |
| 358 | cat tgc cgg gga gtc ccg | ggc gcc cgg ccc tgc ccc | gac tat tgc cga | 816 |
| 359 | His Cys Arg Gly Val Pro | Gly Ala Arg Pro Cys Pro | Asp Tyr Cys Arg | |
| 360 | 260 | 265 | 270 | |
| 362 | aat gtg ctc aaa ggc tgc | ctt gcc aac cag gcc gac | ctg gat gcc gag | 864 |
| 363 | Asn Val Leu Lys Gly Cys | Leu Ala Asn Gln Ala Asp | Leu Asp Ala Glu | |
| 364 | 275 | 280 | 285 | |
| 366 | tgg agg aac ctc ctg gac | tcc atg gtg ctc atc act | gac aag ttc tgg | 912 |
| 367 | Trp Arg Asn Leu Leu Asp | Ser Met Val Leu Ile Thr | Asp Lys Phe Trp | |
| 368 | 290 | 295 | 300 | |
| 370 | ggc ccg tcg ggt gcg gag | agt gtc att ggc ggt gtg | cac gtg tgg ctg | 960 |
| 371 | Gly Pro Ser Gly Ala Glu | Ser Val Ile Gly Gly Val | His Val Trp Leu | |
| 372 | 305 | 310 | 315 | 320 |
| 374 | gcg gag gcc atc aac gcc | ctc cag gac aac aag gac | aca ctc aca gct | 1008 |
| 375 | Ala Glu Ala Ile Asn Ala | Leu Gln Asp Asn Lys Asp | Thr Leu Thr Ala | |
| 376 | 325 | 330 | 335 | |
| 378 | aag gtc atc cag gcc tgt | gga aac ccc aag gtc aat | ccc cac ggc tct | 1056 |
| 379 | Lys Val Ile Gln Ala Cys | Gly Asn Pro Lys Val Asn | Pro His Gly Ser | |
| 380 | 340 | 345 | 350 | |
| 382 | ggg ccc gag gag aag cgt | cgc cgt ggc aaa ttg gca | ctg cag gag aag | 1104 |
| 383 | Gly Pro Glu Glu Lys Arg | Arg Arg Gly Lys Leu Ala | Leu Gln Glu Lys | |
| 384 | 355 | 360 | 365 | |
| 386 | ccc tcc aca ggt act ctg | gaa aaa ctg gtc tct gag | gcc aag gcc cag | 1152 |
| 387 | Pro Ser Thr Gly Thr Leu | Glu Lys Leu Val Ser Glu | Ala Lys Ala Gln | |
| 388 | 370 | 375 | 380 | |
| 390 | ctc cga gac att cag gac | ttc tgg atc agc ctc cca | ggg aca ctg tgc | 1200 |
| 391 | Leu Arg Asp Ile Gln Asp | Phe Trp Ile Ser Leu Pro | Gly Thr Leu Cys | |
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VERIFICATION SUMMARY

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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
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